compositions for the crystal include anthracene, bismuth germanium oxide (BGO, cerium oxide (CeI), cesium iodide (CsI), gadolinium orthosilicate (GSO), lutetium orthosilicate (LSO) and other like substances. The crystal 12 receives radiation from the well bore, transforms the radiation into light impulses and transmits the light impulses to a photomultiplier tube 72 that is attached to a forward end of the crystal component.--

and Cond

Paragraph [0022]:

--The crystal 12 is initially wrapped with a reflective Teflon® tape 14. The forward, tapered end portion 16 of the crystal is shielded by a conically shaped gadolinium foil 18 (partially shown in Figure 2). A thin polyamide layer 20 is then wrapped about the cylindrical portion 22 of the crystal and secured by a 1/4" strip of Kapton tape 24.--

## Paragraph [0025]:



--Referring again to Figure 2, the final assembly includes locating a coupler 52 at the forward end of the crystal 12, with silicon oil between the coupler and the front face 54 of the crystal. At the opposite or rearward end of the crystal, Teflon® tape discs 56, 58 are applied to the back or rear face of the crystal 12, with a boron nitride disc 60 and a gadolinium disc 62 sandwiched between the tape discs 56, 58, a compression plate 64, axial spring 66 and an end cap 68. This entire detector assembly is located within a titanium shield or housing 70, with axially extending radial springs 72 located radially between the SARCA assembly 26 and the shield 70. The end cap 68 is welded to the end